

# SCREENINGS WASHER COMPACTOR



The FSM Washer Compactor reduces the weight and volume of screenings while washing out more than 95% of fecal matter, combining high performance with low operating costs.

## FEATURES

- Rugged stainless steel construction
- Indoor or outdoor installation
- Durable Hardox 400 screw for long life
- Shafted screw design for greater compaction strength
- Heavy duty spherical shaft bearing
- Integral washing system

## OPTIONS

- Agitator with soaking zone
- Outlet with hydraulic backpressure device
- Outlet with adjustable backpressure device

## BENEFITS

- High reliability, low maintenance costs
- Reduction of waste disposal costs by minimizing volume and weight of screenings
- Easily adapted to suit existing installations



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## OVERVIEW

The FSM wash compactor is synonymous with hygienic and efficient handling of screenings. Screening disposal is a cost factor for every installation; wet screenings are heavy and increase disposal costs. The fecal matter in the water must also be delivered to the subsequent sewage purification process. The FSM washer compactor reduces the weight and volume of the screenings while washing out more than 95% of fecal matter. FSM washer compactors provide high performance combined with low operating costs to provide an excellent cost/performance ratio.

## PRINCIPLE OF OPERATION

The screenings are discharged directly from a screening unit, conveyor, or flume to the press feed hopper. The screw then transports the screenings to the washing zone where service water is added and the organic matter is washed out. Fecal matter is loosened and washed off the screenings in the wash zone by a washboard/friction process. Hairs, fibers, etc. which could cause mechanical breakdowns and blockages in the downstream process are retained in the screenings. An optional agitator with soaking zone and modified control sequence can also be provided. The water and solubilized organics which are removed by this process are then returned to the wastewater channel via a collection pan. The screw then delivers the washed screenings to the press zone where they are dewatered, with the water also being delivered back to channel via the collection pan. The dewatered screenings are then discharged via a discharge pipe to a container, or conveyor. A shredding device or optional bagging unit are also available for installation on the end of the discharge pipe if desired.

## TECHNICAL DATA

Screw diameter: 200 mm, 300 mm, 350 mm (8", 12", 14")

Throughput: Up to 450 ft<sup>3</sup>/hr

Fecal matter reduction: Greater than 95%

Volume reduction: 60-70%

Weight reduction: 60-70%

Dry Substance: >50%

## MATERIALS

Housing: 304 or 316 stainless steel

Discharge pipe: 304 or 316 stainless steel

Conveyor screw: Wear resistant Hardox 400 steel

Wear strips: 400 BHN steel



For more information call **864.576.0660**  
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